# **Discharge Monitoring Report Manual**





This manual was produced in partnership with the University of Kentucky's Environmental Research and Training Laboratories (ERTL), Kentucky Division of Water and the Kentucky Division of Compliance Assistance. This manual serves as a guidance document and is not a substitute for reading and understanding your KPDES permit. For questions regarding this manual, please contact the Division of Compliance Assistance at 800-926-8111 or <a href="mailto:envhelp@ky.gov">envhelp@ky.gov</a>.

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## **Chapter 1: Overview**

#### **KPDES**

The Clean Water Act (CWA) established the National Pollutant Discharge Elimination System (NPDES) that required every facility discharging water into receiving waters of the U.S. to possess a permit. These NPDES permits set limitations on how much of a given pollutant can be released into a body of water. Under the NPDES program, monitoring of the effluent is the responsibility of the permit holder. The data collected during monitoring is recorded on a document referred to as a discharge monitoring report (DMR), which must be submitted to the state by the permit holder. The Kentucky Division of Water uses this data to determine compliance with permit conditions. The Kentucky Division of Water is also responsible to the U.S Environmental Protection Agency (EPA) for entering the DMR data into the federal permit compliance system. This data is used by the EPA for oversight over the Kentucky Permitting Program. The Kentucky Division of Water (DOW) is responsible for the administration of the NPDES program in the state of Kentucky, and, as a result, the program in Kentucky is referred to as the KPDES.

#### **Purpose**

This document is designed to serve as a guide that explains the DMR completion procedure. Since each DMR contains limits and information specific to an individual permit holder, the responsible persons completing the DMR needs to be certain that they are using the correct DMR, and that the information on the DMR matches their permit before beginning the completion process. The examples provided in this document will be similar to any DMR forms, but differ in the limits for each parameter as these are specific to each facility.

#### **How to Use This Document**

Throughout this document, you will see references to boxes containing numbers like the one shown here. # These boxes link the explanation or definition to an example illustrated in Appendixes B and C. Appendix B shows the data and calculations sheet that was used to complete the example DMR located in Appendix C. Reference

Appendix B to see the source of the data in the example, and reference Appendix C to see how the data would be entered onto the DMR.

### **CHAPTER 2: DMR Instructions**

Preprinted DMRs are sent out quarterly to permittees and should correspond to your permit requirements. Check to make sure that your preprinted DMR matches your KPDES permit. The permit is a legally binding document, and the DMR should reflect the permit conditions. If there are discrepancies, contact the Surface Water Permits, Permit Support Section, within the Division of Water.

#### **DMR Parts**

The numbers below correspond to the numbers found on the example DMR form on the following page

- **1. Permittee Name and Address** Verify that the correct name and mailing address appear at the top left-hand corner of the DMR. For corrections, please contact the DOW Surface Water Permits Branch, Permit Support Section Supervisor, at 502-564-8158, ext. 4923.
- **2. Facility Name and Facility Location** Verify that the facility name and location are correct as they appear on the DMR. For corrections, please contact the DOW Surface Water Permits Branch, Permit Support Section Supervisor, at 502-564-8158, ext. 4923
- **3. Permit Number** Confirm that the correct KPDES permit numbers appear in the permit number block. This number must be prominently displayed on any correspondence regarding KPDES permit issues. For corrections, please contact the DOW Surface Water Permits Branch, Permit Support Section Supervisor, at 502-564-8158, ext. 4923.
- **4. Discharge Number** The discharge number refers to a particular pipe or outfall. Each DMR corresponds to a specific outfall. Make sure you are recording data for the correct outfall on your DMR.
- **5. No Discharge** If there is no discharge for the monitoring period, place a "C" in the no discharge box in the upper right-hand corner of the DMR or use one of the No Data Indicator Codes (NODI) listed below:

#### **NODI Codes**

В	Below Detect Limit/No Detect
С	No Discharge
D	Lost Sample
E	Analysis Not Conducted
F	Insufficient Flow for Sampling
G	Sampling Equipment Failure
K	Flood Disaster

"2"	Operations Shutdown
"5"	Frozen Conditions
"8"	Other: Please include letter of explanation
"9"	Monitoring Not Required for This Period

It is important to note that you should never force a discharge in order to take a sample during the monitoring period. The intent of the monitoring program is to be representative of the operations of the wastewater treatment system, such as for individual home units.

- **6. Parameters** Verify that each parameter specified in the permit is listed one per box in the far left column of the form. For corrections, please contact the DOW Surface Water Permitting Branch, Permit Support Section Supervisor at 502-564-8158, ext. 4923.
- **7. Monitoring Period** The first and last days of the monitoring period are displayed here in a YEAR MO DAY format. Since the monitoring period for each permit is different, the permittee should check to be certain that the monitoring period specified on the DMR corresponds to the permit requirement. For corrections, please contact the DOW Surface Water Permits Branch, Permit Support Section Supervisor, at 502-564-8158, ext. 4923
- **8. Permit Requirement** –Verify each permit requirement for each parameter under Quality and Quantity as specified in the permit. For corrections, please contact the DOW Surface Water Permitting Branch, Permit Support Section Supervisor at 502-564-8158, ext. 4923.
- **9. Sample Measurement** Enter the "sample measurement" data for each parameter under "Quantity" and "Quality" in the units pre-printed on the form or specified in the permit.
  - Average is normally the arithmetic average (geometric mean for bacterial parameter) of all sample measurements for each parameter obtained during the monitoring period. pH is never averaged.
  - Maximum and minimum are normally the high and low measurements obtained during the monitoring period.
  - Take care to enter sample measurement data in the correct columns.
     For example, pH measurements are entered in the Minimum and Maximum columns. Dissolved Oxygen (D.O.) is entered in the Minimum column only.
  - If the result of only one measurement is being reported, enter the same value in EVERY column for which limitations are specified in the permit.
  - ALL sample measurement spaces not filled in with asterisks (\*\*\*\*\*) must be completed.

See Appendixes B and C



to see how to record pH and D.O. on the DMR.

- Never use the inequality symbols (< or >) when reporting a sample measurement. A numeric value or text, such as NODI codes or BMDL should be reported in the appropriate sample measurement boxes.
   The inequality should be reported/explained in the comments section.
- **10. Number of Exceedances (NO. EX)** For the purpose of a Discharge Monitoring Report, an exceedance is always a violation, but a violation of a permit condition may not always be an exceedance. For example, if you have sample measurement data that indicates that the **average** in either quantity or quality is greater than permit limitation, it is not to be included in the NO. EX column. It should be explained in the Comments Section as a violation of a permit requirement.

Enter the number of sample measurements during the monitoring period that exceed the permit maximum (or minimum as appropriate) for each parameter. If none, enter "0". Exceedances of maximum (or minimum as appropriate) quantities/loading and maximum (or minimum as appropriate) quality/concentrations shall be added together and reported here. These are violations and should be explained in the Comments section.

- **11. Frequency of Analysis** Enter the actual frequency of sampling during the monitoring period. For example, enter "CONT" for continuous monitoring, "1/7" for once per week, "1/30" for once per month and "1/90" for once per quarter.
- **12. Sample Type** Enter the method used to collect the actual sample, such as "GRAB" for individual samples or "24HC" for 24-hr composite.
- **13.** Name / Title of principal executive officer or authorized agent The name and title of the responsible person should be printed at the bottom of the form.
- **14. Signature** Every page of the DMR must be signed by the Principal Executive Officer or Authorized Agent. Questions on who can sign the DMR are addressed in Chapter 3: Frequently Asked Questions.
- **15. Telephone** The telephone number of the Principal Executive Officer or Authorized Agent must be printed in this section.
- **16. Date** This must be the actual date that the DMR is signed by the Principal Executive Officer or Authorized Agent, certifying and authenticating the data submitted on the DMR.
- **17. Comments and Explanation of Any Violations** This block is required to explain and discuss any permit violations that occurred during the monitoring period. If you require additional space, please attach a brief

explanation. The explanation in both the comments box and any attachments should detail the cause and corrective actions taken in addition to referencing each violation by date.

**18**. **Units** -The units reported on the DMR must match those listed in the permit. If the actual measured units are different from those listed in the permit, then the units **must** be converted.

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# **Chapter 3: Frequently Asked Questions**

## 1. What if the person responsible for filling out the DMR has changed or the facility has changed ownership? Should this be corrected on the DMR form itself?

If the person responsible for the DMR has changed, a letter should be sent to the DOW Surface Water Permits Branch, Permit Support Section.

If the facility has changed ownership, a "Change in Ownership Certificate" form must be filled out and submitted to the DOW Surface Water Permits Branch. Permit Support Section, listed in the back of this document. The proper form can be found at:

http://www.water.ky.gov/homepage\_repository/kpdes\_permit\_aps.htm

## 2. How do I report total residual chlorine if my analyzer's minimum detection limit is 0.02 mg/L?

For Total Residual Chlorine (TRC) where all samples are below minimum detection limits (BMDL), enter "BMDL" in the appropriate boxes. Where multiple samples contain a mixture of values, some of which are below minimum detection limits, the value of 0.02 mg/L shall be substituted for the BMDL sample measurements when conducting averaging calculations. The Division of Water accepts the use of TRC analyzers with a detection limit of 0.02 mg/L.

Example 1

Sample Number	Analysis Results	Average Calculation	DMR Values
1	<0.02 mg/L	0.02	
2	0.10 mg/L	0.10	
3	0.20 mg/L	0.20	0.20 mg/L Maximum
4	0.04 mg/L	0.04	
Average		0.09 mg/L	0.09 mg/L Average

Example 2

Sample Number	Analysis Results	DMR Values
1	<0.02 mg/L	
2	<0.02 mg/L	
3	<0.02 mg/L	BMDL for
		Maximum
4	<0.02 mg/L	
Average		BMDL for Average

## 3. How do I report for bacteriological analysis (fecal coliform and E-coli)?

You should report the nearest whole number multiplied by the dilution factor. If a sample contains colonies that are too numerous to count, it is your responsibility to conduct enough dilutions in these tests to obtain discrete ("real number") value. Reporting a non-numerical value, such as TNTC, is unacceptable because you cannot average non-numerical values. For samples in which subsequent dilutions do not produce a discrete value and are too numerous to count, report results as 99,999. You would also use this value in the geometric mean calculation.

- Never use the inequality symbols < or > when reporting a result. A numeric value or text, such as NODI codes, should be reported in the appropriate sample measurement boxes. The inequality should be reported/explained in the comments section.
- Report a whole number always for bacteriological analysis and NEVER USE DECIMALS.
- In the geometric mean calculations, the colony count cannot be 0. You must use the whole number value of 1 in place of 0 because mathematical laws state that you cannot use 0 in geometric mean calculations.

#### 4. What are monthly and weekly averages?

- Monthly averages are the average of all samples measurements taken during the calendar month.
- Weekly averages are the average of all sample measurements taken during the weeks as described below.
  - Week 1: Calendar days 1-7
  - Week 2: Calendar days 8-14
  - o Week 3; Calendar days 15-21
  - Week 4: Calendar says 22-28

Extra days beyond day 28 are eliminated from the weekly average calculation.

## 5. How do I calculate percent removal for BOD and TSS?

The monthly average percent removal is calculated using the monthly average influent concentration and the monthly average effluent concentration. See Appendix A for calculation example.

## 6. What is the difference between arithmetic and geometric average?

Arithmetic average: An arithmetic average is calculated by adding numbers and then dividing by the total number of figures. For example: the average of numbers 2, 3, 4 is 9 divided by 3, with the result of 3.

Geometric average: Geometric average is a different calculation than arithmetic averages. Geometric averages are used to calculate bacteriological averages. A calculator capable of performing logarithmic functions is required.

See Appendix A for example calculations.

#### 7. What are the guidelines for rounding numbers?

Rule 1. Select the digit you want to round and look to the right side of it. If the digit is 0,1,2,3 or 4, do not change the rounding digit. All digits that are on the right-hand side of the requested rounding digit will become 0,

Rule 2. Select the digit you want to round and look to the right of it. If the digit is 5.6.7. 8 or 9, your rounding digit rounds up by one number. All digits that are on the right-hand side of the requested rounding digit will become 0,

Rounding with decimals: When rounding numbers involving decimals, there are 2 rules to remember:

Rule 1. Select the digit you want to round and look to the right side of it. If that digit is 4,3, 2 or 1, simply drop all digits to the right of it.

Rule 2. Select the digit you want to round and look to the right side of it. If that digit is 5, 6, 7, 8 or 9, add one to the rounding digit and drop all digits to the right of it.

Source: http://math.about.com/od/arithmetic/a/Rounding.htm

## 8. What are the guidelines for significant digits?

Controlling the number of significant digits is a way of accurately reflecting the level of confidence people have with their calculations.

- A significant digit is any non-zero digit in a number. The number 123.678 has 6 significant digits.
- Zeros may or may not be significant. If they are to the left of the first nonzero number, they are not significant. For example, 0.0007 only has 1 significant digit.

- Zeros to the right of non-zero digits that are themselves to the right of the decimal are significant digits. For example, 0.000700 has 3 significant figures.
- Zeros between two non-zero numbers are significant. For example, 2008 has 4 significant figures.

Parameter	Maximum Significant Digits	Examples
Flow, MGD	4	0.266; 9.587; 45.23; 123.8
Biochemical Oxygen Demand (BOD) mg/L	Nearest whole number	6; 18; 258
Total Suspended Solids (TSS) mg/L	Nearest whole number	7; 22; 859
Ammonia Nitrogen, mg/L	3	0.233; 1.25; 24.8
Dissolved Oxygen, mg/L	2	0.99; 6.8; 12
pH, standard units	3	6.80; 7.22; 10.5
Fecal Coliform/ E. coli, colonies/100ml	Nearest whole number multiplied by the dilution factor	3; 243; 1200; 27,000
Total Residual Chlorine, mg/L	4	0.008; 0.010; 0.277; 1.002
Metals, often mg/L or μg/L, but units may vary	4	0.004; 0.062; 0.186; 2.348
Organic Chemicals	Case-by-case basis	

#### 9. What should I do if I lost this month's DMR form?

If for any reason you do not have your DMR form, you should contact the DOW Surface Water Permits Branch, Permit Support Section, to have another DMR generated.

## 10. What results do I report if I sample more frequently than required by my permit?

Your permit lists the minimum frequency for taking and analyzing samples. Therefore, as long as samples are taken using correct methodology and analytical procedures and they are from places specified on your permit, they must be included in the calculation of DMR values. You should report this change in sampling frequency in the "Frequency of Analysis" block on the DMR form.

### 11. How do I correct an error in the data I've reported on a DMR form?

To correct an error in the data you've entered on the DMR form, cross out the old data, reenter the data above the old date and sign above the original signature.

All entries shall be made in red ink. Print the word "REVISED" at the top of the DMR. You should mention the reason for the correction in the "Comments" area at the bottom of the DMR or in a cover letter to your regional and state offices. This is especially important if this change occurs because of an error in the analytical process or data collection. Do not use white out to make corrections on your DMR form.

## 12. What are the most common errors made on DMRs submitted to the KY Division of Water (DOW)?

- Forgetting to print the name on the bottom left of the DMR form.
- Forgetting to sign the bottom right of the DMR form.
- Submitting photocopies or carbon copies of the DMR form. Only signed original copies are acceptable.
- Forgetting to explain in the Comments area or in an attachment why exceedances and resulting permit violations occurred.
- Forgetting to assure that DMR forms and permits match.
- Leaving DMR blanks empty.

### 13. Who can sign a DMR form?

The description of who can act as a signatory official on the DMR form is found in your permit and also in regulations at 40 CFR 122.22, 40 CFR 403.6(a)(2)(ii), 401 KAR 5:060 Section 9. Generally, such a person is responsible corporate official (for example, an officer of the corporation), partner, sole proprietor, or for a government entity, a principal executive officer or ranking elected official. See your permit for a complete description

## 14. Can signatory authority be delegated?

Yes, a duly authorized signatory official may also sign DMR forms. Permission must be given in writing from an authorized signatory official. The letter granting permission must specify an individual by name or a position having responsibility for the overall operation of the plant. This letter must be signed by an authorized signatory official. (40 CFR 122.22(b) contains further details). This information should be provided to the DOW Surface Water Permits Branch, Permit Support Section Supervisor.

## 15. Can photocopies of the DMR forms be submitted instead of the originals?

Only original signed copies can be submitted to the Division of Water Central Office. Your permit allows for photocopies to be submitted to the Division of Water Regional Offices with the same deadline as the original submission to Central Office.

#### 16. What color ink should I use for completing my DMR?

Use only blue or black ink for fill in and signature. You may also choose to type in the information.

## 17. What is the difference between a grab, composite and 24 hour composite sample?

- Grab sample means: (a) For purposes of 401 KAR 5:045, a single instantaneous portion of the effluent; or (b) For purposes of 401 KAR 5:050 to 401 KAR 5:080, a single effluent portion that is not a twenty-four (24) hour composite sample.
- Composite sample means: (a) Not less than four (4) effluent portions collected at regular intervals over a period of eight (8) hours and combined in proportion to flow; (b) Not less than four (4) combined equal volume effluent portions collected over a period of eight (8) hours at intervals proportional to flow; (c) An effluent portion collected continuously over a period of twenty-four (24) hours at a rate proportional to the flow; or (d) An effluent portion consisting of a minimum of four (4) combined equal volume grab samples taken approximately two (2) hours apart.
- Twenty-four hour (24) composite sample means not less than twelve (12) effluent portions collected at regular intervals over a period of twenty-four (24) hours which are composited in proportion to flow.

#### 18. How do I calculate flow if I do not have a flow meter?

If the facility does not have a flow meter, then a scientifically defensible method must be used to measure flow. These methods, though less accurate than a flow meter, can include the use of a bucket and timer or geometric calculations. If you are not sure if the flow measurement method you would like to use is scientifically defensible, you can submit a description of your proposed method to the Division of Water for their review and approval.

## 19. Can I submit my DMR electronically?

The U.S. Environmental Protection Agency (EPA) is working with states on the ability for permittees to submit DMRs electronically. It is anticipated that this will be available in 2011.

## 20. When do I submit my DMR?

It is important to submit your DMR on time. DMRs must be submitted on or before the deadline listed in the KPDES permit.

# **APPENDIX A: Calculations**

In this appendix, you will see references to boxes containing numbers like the one shown here. These boxes link the explanation or definition to an example illustrated in Appendixes B and C. Appendix B shows the data and calculations sheet that was used to complete the example DMR located in Appendix C. Reference Appendix B to see the source of the data in the example, and reference Appendix C to see how the data would be entered onto the DMR.

## **BOD and TSS Percent Removal**

% Removal = Monthly Avg. Influent Conc. – Monthly Avg. Effluent Conc. X 100 Monthly Avg. Influent Conc.

$$99\% = \frac{194 - 2}{194} \times 100$$

## **Geometric Mean Calculations**

#### Formula for Calculating a Geometric Average:

 $Log(FCB_1) + Log(FCB_2) + Log(FCB_3) + ... Log(FCB_n) = Log_{avg}$ 

Antilog(Logavg) = Geometric Averages

Where: Log(FCB) = logarithm of bacteriological colony count n = number of samples

4

#### 30-Day Geometric Average for Fecal Coliform (30-day data taken from Appendix B)

=(Log(184)+Log(25)+Log(10)+Log(14)+Log(3)+Log(6)+Log(10)+Log(7)+Log(3)+Log(3)+Log(3)+Log(3))/12

= 0.9015

Now take 10<sup>0.9015</sup> to get the Geometric Average, which equals 7.970369

#### 7-Day Geometric Average for Fecal Coliform (weekly data taken from Appendix B)

Period	Calculation	Geometric Average	
July 1-7	$=10^{((Log(184)+Log(25)+Log(10))/3)}$	35.83048	
July 8-14	$=10^{((Log(14)+Log(3)+Log(6))/3)}$	6.31636	Alee eee
July 15-21	$=10^{((Log(10)+Log(7)+Log(3))/3)}$	5.943922	Also see rounding
July 22-28	$=10^{((Log(3)+Log(3)+Log(3))/3)}$	3	FAQ

## Five-day Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>)

The monthly average concentration is the arithmetic mean of all sample values measured throughout the month. Similarly, the weekly average concentration is the arithmetic mean of all samples recorded throughout a calendar week. The highest weekly average for the calendar month must be recorded on the DMR. See Appendixes B and C for the monthly average.



rounding **FAQ** 

12

In this case, the weekly Raw CBOD<sub>5</sub> averages were calculated as follows using data from Appendix B:

	Period	Calculation	Weekly Average (mg/l)	
ſ	July 1-7	(144+184+123)/3	150.3	
Ī	July 8-14	(135+205+142)/3	160.7	6
Ī	July 15-21	(146+180+129)/3	151.7	
Ī	July 22-28	(138+153+153)/3	148.0	1

## Calculating CBOD<sub>5</sub> Loading

Calculating average weekly and monthly loading is done by dividing the total load (week or month) by the number of days in the week or month in which the sample was taken. These values are to be reported in pounds/day (lb/day). The following equations may be used to make this conversion:

Quantity (lb/day) = Flow (MGD) x conc. (mg/l) x 8.34

Monthly Average CBOD<sub>5</sub> Loading (RAW)

=((3.17\*144\*8.34)+(3.21\*184\*8.34)+(2.89\*123\*8.34)+(2.87\*135\*8.34)+(2.97\*205 \*8.34)+(2.78\*142\*8.34)+(2.73\*146\*8.34)+(2.96\*180\*8.34)+(2.77\*129\*8.34)+(3.35\*138\*8.34)+(3.17\*153\*8.34)+(3.11\*153\*8.34))/12

=3826.3 lb/day

7

Period	Calculation	Weekly
		Average
		CBOD <sub>5</sub>
		Loading
		(RAW)
		(lb/day)
July 1-7	=((3.17*144*8.34)+(3.21*184*8.34)+(2.89*123*8.34))/3	3899.2
July 8-14	=((2.87*135*8.34)+(2.97*205*8.34)+(2.78*142*8.34))/3	3867.1
July 15-21	=((2.73*146*8.34)+(2.96*180*8.34)+(2.77*129*8.34))/3	3582.6
July 22-28	=((3.35*138*8.34)+(3.17*153*8.34)+(3.11*153*8.34))/3	3956.3

Total Suspended Solids (TSS), Ammonia and Nitrogen quality and quantity calculations should follow the same procedures as above.

## **Calculating Flow**

- The <u>average monthly flow</u> is an arithmetic mean that includes all the daily flows in a given month.
- The maximum daily flow that occurs during the month must also be recorded on the DMR.

# **APPENDIX B: Example DMR Data and Calculation Sheet**

# **Example DMR Calculations**

NAME KPDES					NT					•		1		COUN								MONT			uly	20	08														
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# **APPENDIX C: Example Completed DMR**

# **Example DMR Page 1**

ERMITTEE NAME/ADDRESS (Include Facility : AME DDRESS	Name/Location if Different)			LUTANT DISCH HARGE MON	ARGE ELIMINATION SY IITORING REPORT	( S	JOR JUBR LV) - FINAL			Form Ap OMB No	. 2040-0004
ACILITY OCATION			FROM US	MONIO DA		MO DAY ##	NICIPAL FLUENT ** NO DIS NOTE: Read Inst	CHARGE	i		s form.
PARAMETER		QUAN	TITY OR LOADING			QUALITY OR CONC	ENTRATION		NO. EX	FREQUENCY OF	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	]	ANALYSIS	"""
XYGEN, DISSOLVED	SAMPLE MEASUREMENT	本本本本本作	经验证证证		1 7.2	***	*****	* ( 17)	0	3/7	Grab
0300 1 0 0	PERMIT REQUIREMENT	***	会 化作作法条件	*** ****	7 INST MIN	****	****	MG/L	1	HREE/	RAB
<u>FFLUENT GROSS VALUE</u> H	SAMPLE MEASUREMENT	在农林安林	*******		2 7.6	****	7.9	( 12)	0	34	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	本本本本本本	********	*** ****	6.0 MINIMUM	****	9.0 MAXIMUM	SU	1	HREE/	RAB
OLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	4853	5184	( 26)	****	194	204	(19)	0	3/7	Corp
00500 G G G RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MO AVG	REPORT MX WK AV	LBS/DY	***	REPORT MO AVG	REPORT MX WK A	V MG/L		HREE/ WEEK	COMPOS
GOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	28	77	( 26)	华尔安安尔	2	3	( 19)	0	3/7	Comp
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1501 MO AVG	MX WK AV	LBS/DY	*****	30 MO AVG	45 MX WK A	V MG/L		HREE/ WEEK	COMPOS
GITROGEN, AMMONIA	SAMPLE MEASUREMENT	502	522	( 26)	****	20.0	22.0	( 19)	0	3/7	Comp
00610 G 0 0 RAW SEW/INFLUENT	PERMIT REQUIREMENT	REPORT MD AVG	REPORT MX WK AV	LBS/DY	*****	REPORT MO AVG	REPORT MX WK A			WEEK	COMPOS
AITROGEN, AMMONIA	SAMPLE MEASUREMENT	3	6	( 26)	计卡尔尔尔	0.14	0.26	( 19)	0	3/7	Co-
00610 1 1 0 FFLUENT GROSS VALUE	PERMIT REQUIREMENT	100 MO AVG	150 MX WK AV	LBS/DY	****	MD AVG	MX WK A	V MG/L		HREE/ WEEK	COMPOS
°HOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	经本标本条件	都教教育政策		非非常称称	0.16	0.248	( 19)	0	1/2	Long
00665 1 1 0 E <mark>ffluent Gross Valu</mark> e	PERMIT REQUIREMENT	****	*******	<b>*****</b> ******	****	REPORT MO AVG	REPORT MX WK A		'	FEKLY	COMPOS
NAME/TITLE PRINCIPAL EXECUTIVE	OFFICER I certify prepare to assure submitt or those submitt I am av	ed under my direction or su re that qualified personnel p led. Based on my inquiry of e persons directly responsib ted is, to the best of my know ware that there are significan	his document and all attachr pervision in accordance with properly gather and evaluate the person or persons who m le for gathering the informat wledge and belief, true, accur nt penalties for submitting fa	a system designed the information tanage the system, ion, the information ate, and complete. Ise information,	sign	ATUBE-OF PRÍNCIPAL FICER OR AUTHORIZI	EXECUTIVE DAGENT	TELEPHO		08 0	ATE  ATE  ATE  ATE
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pH meter could only read 2 significant digits

EPA Form 3320-1 (Rev. 3/99) Previous editions may be used.

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## **Example DMR Page 2**

Form Approved. PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) OMB No. 2040-0004 DISCHARGE MONITORING REPORT (DMR) NAME MAJOR (SUBR LV) **ADDRESS** PERMIT NUMBER DISCHARGE NUMBER F - FINAL MUNICIPAL WASTEWATER MONITORING PERIOD **FACILITY** EFFLUENT YEAR MO DAY YEAR МО DAY LOCATION \*\*\* NO DISCHARGE 新长科 FROM 01 31 -08 NOTE: Read Instructions before completing this form. FREQUENCY NO. SAMPLE **PARAMETER QUALITY OR CONCENTRATION** QUANTITY OR LOADING TYPE EX MAXIMUM10 ANALYSIS **AVERAGE** UNITS MINIMUM **AVERAGE MAXIMUM** UNITS \*\*\*\* \*\*\*\* \*\*\*\* 03) IN CONDUIT OR SAMPLE LOW 3.055 4.460 MEASUREMENT HRU TREATMENT PLANT 4\*\* MITMODMITMOD \*\*\* REPORT \*\*\* \*\*\* 50050 1 0 PERMIT REPORT UDUS REQUIREMENT EFFLUENT GROSS VALUE MO AVG DAILY MX MGD 13) \*\*\*\*\*\* 经本本本本本 COLIFORM, FEGAL SAMPLE 经按价格的 0 MEASUREMENT GENERAL 200 400 HREE/GRAB  $\circ$ \*\*\* 经按按按按按 长长长长长长 4055 0 PERMIT í WEEK REQUIREMENT **GODA GEO** 7 DA GEO 100ML EFFLUENT GROSS VALUE 19) 3/7 26) BOD, CARBONACECUS 经存款的证据 SAMPLE ¥ 3956 0 382C × 153 161 Comp MEASUR DS DAY, 200 / REPORT HREE/COMPUS REPORT REPORT \*\*\*\* REPORT 80082 G G PERMIT 6MX WK AV WEEK REQUIREMENT MO AVG MX WK AV .BS/DY MO AVG RAW SEW/INFLUENT 19) 26) BOD, CARBONACEOUS SAMPLE 计计算标准 75 3 0 80 صمحا MEASUREMENT D5 DAY, 20C HREE/COMPOS 15 \*\*\* 10 500 751 **\$**0082 1 0 PERMIT WEEK REQUIREMENT MO AVG MX WK AV .BS/DY MO AVG MX WK AV EFFLUENT GROSS VALUE 23) 教育标准条件 安全社会共长 计计计计计计 女女女女女女 CARB-5 DAY, SAMPLE % 98 0 Ca DEG C, PERCENT REMULIMEASUREMENT 131 DNCE/ CALCID 85 \*\*\*\*\* **HER-**计标件标 有标识话表 经经验经验检 BOOSI 14 0 0 PERMIT 计校校校校 MONTH REQUIREMENT MO AVG PERCENT REMOVAL 专种的 CENT 23) 法本字字本本 全水水水水水 本本本本本本 法经济经济 BOLIDS, SUSPENDED SAMPLE 99% 131 MEASUREMENT PERCENT REMOVAL CALCED 计卡拉特 85 \*\*\* \*\*\*\*\* **円**巨尺一 ONCE/ **B1**011 K 0 0 PERMIT 女女女女女女 \*\*\*\* MO AVG MONTH REQUIREMENT CENT 44 44 46 PERCENT REMOVAL SAMPLE MEASUREMENT PERMIT REQUIREMENT **TELEPHONE** NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I certify under penalty of law that this document and all attachments were DATE prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information 08 08 124 submitted is, to the best of my knowledge and belief, true, accurate, and complete. SIGNATURE OF PRINCIPAL EXECUTIVE I am aware that there are significant penalties for submitting false information, **QFFICER OR AUTHORIZED AGENT** NUMBER YEAR MO DAY **TYPED OR PRINTED** including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

USE MO AVO FOR BOD/TSS REMV: REPT IN MINIMUM COLUMN.

## APPENDIX D: Address and Phone Numbers

**KY Division of Water: Surface Water Permits Branch** 

Branch Telephone: 502-564-3410

200 Fair Oaks Lane Frankfort, KY 40601

#### **Sections and Supervisors Contact Information**

http://www.water.ky.gov/homepage repository/organization.htm

- Construction and Compliance Section
- Permit Support Section
- Wet Weather Section
- Floodplain Management Section

#### **KY Division of Water: Compliance and Technical Assistance** Branch

Central Office Telephone: 502-564-3410 Regional Offices

#### 1508 Westen Ave., Bowling Green, KY 42104: 270-746-7475

Allen, Barren, Butler, Edmonson, Grayson, Hart, Logan, Ohio, Simpson

#### 2751 Campbellsville Rd., Columbia, KY 42728: 270-384-4734

Adair, Boyle, Casey, Clinton, Cumberland, Green, LaRue, Lincoln, Marion, Metcalfe, Monroe, Nelson, Pulaski, Russell, Taylor, Washington, Wayne

#### 8020 Veterans Memorial Dr., Suite 110, Florence, KY 41042: 859-525-4923

Boone, Bracken, Campbell, Carroll, Gallatin, Grant, Henry, Kenton, Owen, Pendleton, Trimble

#### 643 Teton Trail, Suite B, Frankfort, KY 40601: 502-564-3358

Anderson, Bourbon, Clark, Estill, Fayette, Franklin, Garrard, Harrison, Jessamine, Madison, Mercer, Montgomery, Nicholas, Powell, Robertson, Scott, Woodford

#### 233 Birch St., Suite 1, Hazard, KY 41701: 606-435-6022

Breathitt, Floyd, Johnson, Knott, Lee, Letcher, Magoffin, Martin, Perry, Pike, Wolfe

#### 875 South Main St., London, KY 40741: 606-330-2080

Bell, Clay, Harlan, Jackson, Knox, Laurel, Leslie, McCreary, Owsley, Rockcastle, Whitley

#### 9116 Leesgate Rd., Louisville, KY 40222-5084: 502-429-7122

Breckinridge, Bullitt, Hardin, Jefferson, Meade, Oldham, Shelby, Spencer

#### 625 Hospital Dr., Madisonville, KY 42431-1683: 270-824-7529

Caldwell, Christian, Crittenden, Daviess, Hancock, Henderson, Hopkins,

McLean, Muhlenberg, Todd, Union, Webster

#### 525 Hecks Plaza Dr., Morehead, KY 40351: 606-784-6634

Bath, Boyd, Carter, Elliott, Fleming, Greenup, Lawrence, Lewis, Mason, Menifee, Morgan, Rowan

#### 130 Eagle Nest Dr., Paducah, KY 42003: 270-898-8468

Ballard, Calloway, Carlisle, Fulton, Graves, Hickman, Livingston, Lyon, Marshall, McCracken, Trigg

Drinking Water Compliance and Technical Assistance Section: 502-564-3410

Complaints Coordinator: 502-564-3410
Submit a complaint to the Division of Water.

#### **Division of Compliance Assistance (DCA)**

**Environmental Compliance Assistance Program** 

Telephone: 502-564-0323 E-mail: envhelp@ky.gov

Web page: <a href="http://www.dca.ky.gov/complianceassistance/">http://www.dca.ky.gov/complianceassistance/</a>

Operator Certification Program Telephone: 502-564-0323 E-mail: envhelp@ky.gov

Web page: <a href="http://www.dca.ky.gov/certification/">http://www.dca.ky.gov/certification/</a>